

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Nashville

2960 Foster Creighton Drive

Nashville, TN 37204

Tel: (615)726-0177

TestAmerica Job ID: 490-23149-1

Client Project/Site: Everett Terminal

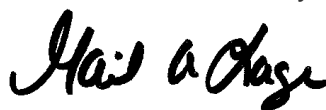
For:

Exxon Global Remed. Grp

52 Beacham Street

Everett, Massachusetts 02149

Attn: Mr. Ernest E Haynes



Authorized for release by:

4/9/2013 6:28:20 PM

Gail Lage

Senior Project Manager

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Results relate only to the items tested and the sample(s) as received by the laboratory.

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## Sample Summary

Client: Exxon Global Remed. Grp  
Project/Site: Everett Terminal

TestAmerica Job ID: 490-23149-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
490-23149-1	Outfall 01 C	Wastewater	03/29/13 11:05	03/30/13 08:15
490-23149-2	Trip Blank	Water	03/29/13 00:01	03/30/13 08:15

## Case Narrative

Client: Exxon Global Remed. Grp  
Project/Site: Everett Terminal

TestAmerica Job ID: 490-23149-1

**Job ID: 490-23149-1**

**Laboratory: TestAmerica Nashville**

### Narrative

#### Job Narrative 490-23149-1

#### Receipt

The samples were received on 3/30/2013 8:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.2° C.

#### HPLC

No analytical or quality issues were noted.

#### GC VOA

Method(s) 602: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch 70418.

No other analytical or quality issues were noted.

#### Organic Prep

Method(s) 1664A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 69822 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

No other analytical or quality issues were noted.

## Definitions/Glossary

Client: Exxon Global Remed. Grp  
Project/Site: Everett Terminal

TestAmerica Job ID: 490-23149-1

### Qualifiers

#### General Chemistry

Qualifier	Qualifier Description
F	MS or MSD exceeds the control limits

### Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

# Client Sample Results

Client: Exxon Global Remed. Grp  
Project/Site: Everett Terminal

TestAmerica Job ID: 490-23149-1

**Client Sample ID: Outfall 01 C**

**Lab Sample ID: 490-23149-1**

**Date Collected: 03/29/13 11:05**

**Matrix: Wastewater**

**Date Received: 03/30/13 08:15**

## Method: 602 - Purgeable Aromatics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.360		1.00	0.360	ug/L			04/06/13 03:21	1
Toluene	<0.330		1.00	0.330	ug/L			04/06/13 03:21	1
Ethylbenzene	<0.370		1.00	0.370	ug/L			04/06/13 03:21	1
Xylenes, Total	<0.600		3.00	0.600	ug/L			04/06/13 03:21	1
Methyl tert-butyl ether	4.50		1.00	0.460	ug/L			04/06/13 03:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	96		50 - 150					04/06/13 03:21	1

## Method: 610 - PAHs (HPLC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.160		0.943	0.160	ug/L		04/04/13 06:57	04/05/13 20:05	1
Acenaphthylene	<0.217		0.943	0.217	ug/L		04/04/13 06:57	04/05/13 20:05	1
Anthracene	<0.0943		0.943	0.0943	ug/L		04/04/13 06:57	04/05/13 20:05	1
Benzo[a]anthracene	<0.0189		0.189	0.0189	ug/L		04/04/13 06:57	04/05/13 20:05	1
Benzo[a]pyrene	<0.0189		0.0943	0.0189	ug/L		04/04/13 06:57	04/05/13 20:05	1
Benzo[b]fluoranthene	<0.0189		0.0943	0.0189	ug/L		04/04/13 06:57	04/05/13 20:05	1
Benzo[g,h,i]perylene	<0.0189		0.189	0.0189	ug/L		04/04/13 06:57	04/05/13 20:05	1
Benzo[k]fluoranthene	<0.0189		0.132	0.0189	ug/L		04/04/13 06:57	04/05/13 20:05	1
Chrysene	<0.0189		0.0943	0.0189	ug/L		04/04/13 06:57	04/05/13 20:05	1
Dibenz(a,h)anthracene	<0.0283		0.189	0.0283	ug/L		04/04/13 06:57	04/05/13 20:05	1
Fluoranthene	<0.0283		0.189	0.0283	ug/L		04/04/13 06:57	04/05/13 20:05	1
Fluorene	<0.0377		0.472	0.0377	ug/L		04/04/13 06:57	04/05/13 20:05	1
Indeno[1,2,3-cd]pyrene	<0.0377		0.189	0.0377	ug/L		04/04/13 06:57	04/05/13 20:05	1
Naphthalene	<0.321		0.943	0.321	ug/L		04/04/13 06:57	04/05/13 20:05	1
Phenanthrene	<0.0472		0.472	0.0472	ug/L		04/04/13 06:57	04/05/13 20:05	1
Pyrene	<0.0283		0.189	0.0283	ug/L		04/04/13 06:57	04/05/13 20:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
p-Terphenyl	79		25 - 135				04/04/13 06:57	04/05/13 20:05	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease (HEM)	<1.39		3.96	1.39	mg/L		04/03/13 11:00	04/03/13 11:00	1

TestAmerica Nashville

# Client Sample Results

Client: Exxon Global Remed. Grp  
Project/Site: Everett Terminal

TestAmerica Job ID: 490-23149-1

**Client Sample ID: Trip Blank**

**Lab Sample ID: 490-23149-2**

**Date Collected: 03/29/13 00:01**

**Matrix: Water**

**Date Received: 03/30/13 08:15**

## Method: 602 - Purgeable Aromatics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.360		1.00	0.360	ug/L			04/05/13 23:37	1
Toluene	<0.330		1.00	0.330	ug/L			04/05/13 23:37	1
Ethylbenzene	<0.370		1.00	0.370	ug/L			04/05/13 23:37	1
Xylenes, Total	<0.600		3.00	0.600	ug/L			04/05/13 23:37	1
Methyl tert-butyl ether	<0.460		1.00	0.460	ug/L			04/05/13 23:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	94		50 - 150		04/05/13 23:37	1

# QC Sample Results

Client: Exxon Global Remed. Grp  
Project/Site: Everett Terminal

TestAmerica Job ID: 490-23149-1

## Method: 602 - Purgeable Aromatics (GC)

Lab Sample ID: MB 490-70418/31

Matrix: Water

Analysis Batch: 70418

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.360		1.00	0.360	ug/L			04/05/13 23:09	1
Toluene	<0.330		1.00	0.330	ug/L			04/05/13 23:09	1
Ethylbenzene	<0.370		1.00	0.370	ug/L			04/05/13 23:09	1
Xylenes, Total	<0.600		3.00	0.600	ug/L			04/05/13 23:09	1
Methyl tert-butyl ether	<0.460		1.00	0.460	ug/L			04/05/13 23:09	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	96		50 - 150		04/05/13 23:09	1

Lab Sample ID: LCS 490-70418/43

Matrix: Water

Analysis Batch: 70418

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	20.0	19.26		ug/L		96	39 - 150
Toluene	20.0	19.75		ug/L		99	46 - 148
Ethylbenzene	20.0	19.08		ug/L		95	32 - 160
Xylenes, Total	60.0	59.86		ug/L		100	66 - 136
Methyl tert-butyl ether	20.0	17.18		ug/L		86	56 - 136

Surrogate	LCS %Recovery	LCS Qualifier	Limits
a,a,a-Trifluorotoluene	98		50 - 150

## Method: 610 - PAHs (HPLC)

Lab Sample ID: MB 490-69976/1-A

Matrix: Water

Analysis Batch: 71024

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 69976

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.170		1.00	0.170	ug/L		04/04/13 06:57	04/05/13 19:14	1
Acenaphthylene	<0.230		1.00	0.230	ug/L		04/04/13 06:57	04/05/13 19:14	1
Anthracene	<0.100		1.00	0.100	ug/L		04/04/13 06:57	04/05/13 19:14	1
Benzo[a]anthracene	<0.0200		0.200	0.0200	ug/L		04/04/13 06:57	04/05/13 19:14	1
Benzo[a]pyrene	<0.0200		0.100	0.0200	ug/L		04/04/13 06:57	04/05/13 19:14	1
Benzo[b]fluoranthene	<0.0200		0.100	0.0200	ug/L		04/04/13 06:57	04/05/13 19:14	1
Benzo[g,h,i]perylene	<0.0200		0.200	0.0200	ug/L		04/04/13 06:57	04/05/13 19:14	1
Benzo[k]fluoranthene	<0.0200		0.140	0.0200	ug/L		04/04/13 06:57	04/05/13 19:14	1
Chrysene	<0.0200		0.100	0.0200	ug/L		04/04/13 06:57	04/05/13 19:14	1
Dibenz(a,h)anthracene	<0.0300		0.200	0.0300	ug/L		04/04/13 06:57	04/05/13 19:14	1
Fluoranthene	<0.0300		0.200	0.0300	ug/L		04/04/13 06:57	04/05/13 19:14	1
Fluorene	<0.0400		0.500	0.0400	ug/L		04/04/13 06:57	04/05/13 19:14	1
Indeno[1,2,3-cd]pyrene	<0.0400		0.200	0.0400	ug/L		04/04/13 06:57	04/05/13 19:14	1
Naphthalene	<0.340		1.00	0.340	ug/L		04/04/13 06:57	04/05/13 19:14	1
Phenanthrene	<0.0500		0.500	0.0500	ug/L		04/04/13 06:57	04/05/13 19:14	1
Pyrene	<0.0300		0.200	0.0300	ug/L		04/04/13 06:57	04/05/13 19:14	1

TestAmerica Nashville



# QC Sample Results

Client: Exxon Global Remed. Grp  
Project/Site: Everett Terminal

TestAmerica Job ID: 490-23149-1

## Method: 610 - PAHs (HPLC) (Continued)

Lab Sample ID: MB 490-69976/1-A

Matrix: Water

Analysis Batch: 71024

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 69976

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	79		25 - 135	04/04/13 06:57	04/05/13 19:14	1

Lab Sample ID: LCS 490-69976/2-A

Matrix: Water

Analysis Batch: 71024

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 69976

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	2.50	2.163		ug/L		87	1 - 124
Acenaphthylene	5.00	4.344		ug/L		87	1 - 139
Anthracene	2.50	2.308		ug/L		92	1 - 126
Benzo[a]anthracene	2.50	2.342		ug/L		94	12 - 135
Benzo[a]pyrene	2.50	2.181		ug/L		87	1 - 128
Benzo[b]fluoranthene	2.50	2.352		ug/L		94	6 - 150
Benzo[g,h,i]perylene	2.50	1.959		ug/L		78	1 - 116
Benzo[k]fluoranthene	2.50	2.373		ug/L		95	1 - 159
Chrysene	2.50	2.444		ug/L		98	1 - 199
Dibenz(a,h)anthracene	2.50	1.677		ug/L		67	1 - 110
Fluoranthene	2.50	2.304		ug/L		92	14 - 123
Fluorene	2.50	2.181		ug/L		87	1 - 142
Indeno[1,2,3-cd]pyrene	2.50	2.240		ug/L		90	1 - 116
Naphthalene	2.50	2.193		ug/L		88	1 - 122
Phenanthrene	2.50	2.273		ug/L		91	1 - 155
Pyrene	2.50	2.287		ug/L		91	1 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
p-Terphenyl	87		25 - 135

Lab Sample ID: 490-23149-1 MS

Matrix: Wastewater

Analysis Batch: 71024

Client Sample ID: Outfall 01 C

Prep Type: Total/NA

Prep Batch: 69976

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	0.265		2.36	2.216		ug/L		83	1 - 124
Acenaphthylene	<0.217		4.72	4.011		ug/L		85	1 - 139
Anthracene	<0.0943		2.36	2.198		ug/L		93	1 - 126
Benzo[a]anthracene	<0.0189		2.36	2.193		ug/L		93	12 - 135
Benzo[a]pyrene	<0.0189		2.36	2.057		ug/L		87	1 - 128
Benzo[b]fluoranthene	<0.0189		2.36	2.132		ug/L		90	6 - 150
Benzo[g,h,i]perylene	<0.0189		2.36	2.004		ug/L		85	1 - 116
Benzo[k]fluoranthene	<0.0189		2.36	2.153		ug/L		91	1 - 159
Chrysene	<0.0189		2.36	2.295		ug/L		97	1 - 199
Dibenz(a,h)anthracene	<0.0283		2.36	1.956		ug/L		83	1 - 110
Fluoranthene	<0.0283		2.36	2.191		ug/L		93	14 - 123
Fluorene	<0.0377		2.36	2.055		ug/L		87	1 - 142
Indeno[1,2,3-cd]pyrene	<0.0377		2.36	2.006		ug/L		85	1 - 116
Naphthalene	<0.321		2.36	2.083		ug/L		88	1 - 122
Phenanthrene	<0.0472		2.36	2.157		ug/L		91	1 - 155
Pyrene	<0.0283		2.36	2.226		ug/L		94	1 - 140

TestAmerica Nashville

# QC Sample Results

Client: Exxon Global Remed. Grp  
Project/Site: Everett Terminal

TestAmerica Job ID: 490-23149-1

## Method: 610 - PAHs (HPLC) (Continued)

Lab Sample ID: 490-23149-1 MS  
Matrix: Wastewater  
Analysis Batch: 71024

Client Sample ID: Outfall 01 C  
Prep Type: Total/NA  
Prep Batch: 69976

Surrogate	MS %Recovery	MS Qualifier	Limits
p-Terphenyl	88		25 - 135

## Method: 1664A - HEM and SGT-HEM

Lab Sample ID: MB 490-69817/1-A  
Matrix: Water  
Analysis Batch: 69822

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 69817

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease (HEM)	<1.40		4.00	1.40	mg/L		04/03/13 11:00	04/03/13 11:00	1

Lab Sample ID: LCS 490-69817/2-A  
Matrix: Water  
Analysis Batch: 69822

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 69817

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Oil & Grease (HEM)	41.7	38.96		mg/L		93	78 - 114

Lab Sample ID: LCSD 490-69817/3-A  
Matrix: Water  
Analysis Batch: 69822

Client Sample ID: Lab Control Sample Dup  
Prep Type: Total/NA  
Prep Batch: 69817

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Oil & Grease (HEM)	41.7	38.33		mg/L		92	78 - 114	2	18

Lab Sample ID: 490-23224-A-4-A MS  
Matrix: Water  
Analysis Batch: 69822

Client Sample ID: Matrix Spike  
Prep Type: Total/NA  
Prep Batch: 69817

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Oil & Grease (HEM)	<1.49		46.5	23.72	F	mg/L		51	78 - 114

# QC Association Summary

Client: Exxon Global Remed. Grp  
Project/Site: Everett Terminal

TestAmerica Job ID: 490-23149-1

## GC VOA

### Analysis Batch: 70418

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-23149-1	Outfall 01 C	Total/NA	Wastewater	602	
490-23149-2	Trip Blank	Total/NA	Water	602	
LCS 490-70418/43	Lab Control Sample	Total/NA	Water	602	
MB 490-70418/31	Method Blank	Total/NA	Water	602	

## HPLC/IC

### Prep Batch: 69976

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-23149-1	Outfall 01 C	Total/NA	Wastewater	610	
490-23149-1 MS	Outfall 01 C	Total/NA	Wastewater	610	
LCS 490-69976/2-A	Lab Control Sample	Total/NA	Water	610	
MB 490-69976/1-A	Method Blank	Total/NA	Water	610	

### Analysis Batch: 71024

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-23149-1	Outfall 01 C	Total/NA	Wastewater	610	69976
490-23149-1 MS	Outfall 01 C	Total/NA	Wastewater	610	69976
LCS 490-69976/2-A	Lab Control Sample	Total/NA	Water	610	69976
MB 490-69976/1-A	Method Blank	Total/NA	Water	610	69976

## General Chemistry

### Prep Batch: 69817

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-23149-1	Outfall 01 C	Total/NA	Wastewater	1664A	
490-23224-A-4-A MS	Matrix Spike	Total/NA	Water	1664A	
LCS 490-69817/2-A	Lab Control Sample	Total/NA	Water	1664A	
LCSD 490-69817/3-A	Lab Control Sample Dup	Total/NA	Water	1664A	
MB 490-69817/1-A	Method Blank	Total/NA	Water	1664A	

### Analysis Batch: 69822

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-23149-1	Outfall 01 C	Total/NA	Wastewater	1664A	69817
490-23224-A-4-A MS	Matrix Spike	Total/NA	Water	1664A	69817
LCS 490-69817/2-A	Lab Control Sample	Total/NA	Water	1664A	69817
LCSD 490-69817/3-A	Lab Control Sample Dup	Total/NA	Water	1664A	69817
MB 490-69817/1-A	Method Blank	Total/NA	Water	1664A	69817

# Lab Chronicle

Client: Exxon Global Remed. Grp  
Project/Site: Everett Terminal

TestAmerica Job ID: 490-23149-1

**Client Sample ID: Outfall 01 C**

**Date Collected: 03/29/13 11:05**

**Date Received: 03/30/13 08:15**

**Lab Sample ID: 490-23149-1**

**Matrix: Wastewater**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	602		1	70418	04/06/13 03:21	AC	TAL NSH
Total/NA	Prep	610			69976	04/04/13 06:57	NR	TAL NSH
Total/NA	Analysis	610		1	71024	04/05/13 20:05	HT	TAL NSH
Total/NA	Prep	610			69976	04/04/13 06:57	NR	TAL NSH
Total/NA	Analysis	610		1	71024	04/05/13 20:05	HT	TAL NSH
Total/NA	Analysis	1664A		1	69822	04/03/13 11:00	BD	TAL NSH
Total/NA	Prep	1664A			69817	04/03/13 11:00	BD	TAL NSH

**Client Sample ID: Trip Blank**

**Date Collected: 03/29/13 00:01**

**Date Received: 03/30/13 08:15**

**Lab Sample ID: 490-23149-2**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	602		1	70418	04/05/13 23:37	AC	TAL NSH

## Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

## Method Summary

Client: Exxon Global Remed. Grp  
Project/Site: Everett Terminal

TestAmerica Job ID: 490-23149-1

Method	Method Description	Protocol	Laboratory
602	Purgeable Aromatics (GC)	40CFR136A	TAL NSH
610	PAHs (HPLC)	40CFR136A	TAL NSH
1664A	HEM and SGT-HEM	1664A	TAL NSH

### Protocol References:

1664A = EPA-821-98-002

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

### Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

## Certification Summary

Client: Exxon Global Remed. Grp  
Project/Site: Everett Terminal

TestAmerica Job ID: 490-23149-1

### Laboratory: TestAmerica Nashville

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Massachusetts	State Program	1	M-TN032	06-30-13



## COOLER RECEIPT FORM

Cooler Received/Opened On 3/30/2013 @ 0815

1. Tracking # 1186 (last 4 digits, FedEx)

Courier: FedEx IR Gun ID 94660220

2. Temperature of rep. sample or temp blank when opened: 1.2 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO NA

4. Were custody seals on outside of cooler? YES..NO...NA

If yes, how many and where: (1) Front

5. Were the seals intact, signed, and dated correctly? YES..NO...NA

6. Were custody papers inside cooler? YES..NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial) W

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES..NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES..NO...NA

12. Did all container labels and tags agree with custody papers? YES..NO...NA

13a. Were VOA vials received? YES..NO...NA

b. Was there any observable headspace present in any VOA vial? YES..NO..NA

14. Was there a Trip Blank in this cooler? YES..NO...NA If multiple coolers, sequence # \_\_\_\_\_

I certify that I unloaded the cooler and answered questions 7-14 (initial) W

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES..NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES..NO...NA

16. Was residual chlorine present? YES..NO..NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) W

17. Were custody papers properly filled out (ink, signed, etc)? YES..NO...NA

18. Did you sign the custody papers in the appropriate place? YES..NO...NA

19. Were correct containers used for the analysis requested? YES..NO...NA

20. Was sufficient amount of sample sent in each container? YES..NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) W

I certify that I attached a label with the unique LIMS number to each container (initial) W

21. Were there Non-Conformance issues at login? YES..NO Was a NCM generated? YES..NO..# \_\_\_\_\_

## ExxonMobil

Site Address SAME

Flow (MGD): \_\_\_\_\_  
pH: \_\_\_\_\_  
TRC: \_\_\_\_\_



## Login Sample Receipt Checklist

Client: Exxon Global Remed. Grp

Job Number: 490-23149-1

Login Number: 23149

List Source: TestAmerica Nashville

List Number: 1

Creator: McBride, Mike

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	